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John Ogonowski and Doug Bereuter Farmer-to-Farmer (F2F) Program

Request for Technical Assistance Scope of Work Outline

**Title: TOT on Applied Research
Assignment Number: SEN250**

I. Executive Summary:

Winrock International requests the support of a Farmer-to-Farmer volunteer for a 19 day volunteer assignment (including travel) located in Dakar. The volunteer will train professors of the Higher Institute of Agriculture and Entrepreneurship (*Institut Supérieur d'Agriculture et Entreprenariat*, ISAE) enabling them to train students on applied research and to carry out their own applied research on agriculture. Training should include the different stages of applied research, processes, methodologies, objectives, and data analysis.

The Higher Institute of Agriculture is a multidisciplinary center of excellence dedicated to the training, research and dissemination of knowledge in the agricultural sciences in order to promote continuous learning and the improvement of the standard of living and the quality of the environment in Senegal. The professors at ISAE are interested in increasing their applied research skills in order to be able to more deeply research production techniques, especially for onion and sweet potato return on investment and processing techniques for vegetables.

The volunteer should have the following qualifications and background:

- Master's degree or higher in agriculture sciences, agricultural research, or relevant topic
- 10 years' experience in applied research, including conducting and reporting on own applied research
- Experience in training in/teaching research methods
- Excellent written and verbal communication skills.
- French language skills preferred.

II. Background:

Senegal's national development plan promotes the synergy between education, training and research. However, educational institutions in Senegal train Senegalese youth who, after graduation, do not have the right skills to fulfil market needs in regard to agricultural research and innovations. The knowledge imparted to students does not match the market needs and socio-economic realities of the community that they are supposed to provide services.

The authorities and academics are now convinced that these towers of knowledge must be more involved in facing the needs of the people and the market, the resolution of their problems by providing the results of their studies and researches, in other terms better serve their communities.

Mastering of applied research, its mechanisms of results dissemination remains a problem which justifies the request of this training session. ISAE will be the first institution within UCAD (Université Cheikh Anta Diop) trying to bring applied research and market and societal needs closer together. At the moment, ISAE conducts applied training but does not offer a course in applied research for students.



III. Host Information:

Host Organization Name: Higher Institute of Agriculture and Entrepreneurship (ISAE)		Address: Faculty of Science and Technology University Cheikh Anta DIOP			
Phone:	(+221) 338254729	Email:	isae@ucad.edu.sn	Website:	www.isae.sn ; www.isae.ucad.sn www.ucad.sn
Primary Contact Name: Kandioura NOBA		Secondary Contact Name: Karamoko DIARRA			
Phone: (+221) 776351981		Phone: (+221) 774502754			
Email: kandioura.noba@ucad.edu.sn		Email: karamoko.diarra@ucad.edu.sn			
Title: Director		Title: Director of Studies			
Gender: Male		Gender: Male			
Host Type: Public and Private Education Institutions					

Are there local partner organizations collaborating on this assignment? No

IV. Host Organization Profile:

ISAE is a part of UCAD (Université Cheikh Anta Diop). It was created with the objective to switch the academic training aspect of UCAD to more practical, useful and professional for the community. It carried out UCAD's agricultural activities. ISAE and "Rural UCAD," are the two agricultural institutes part of UCAD that work with agricultural communities.

The mission of Higher Institute of Agriculture and Entrepreneurship (ISAE) is to offer high quality training and research, as well as technologies and innovations, which improve competitiveness and modernization in the agro sciences and similar domains. The Institute will train new generations of scientists, practitioners and producers who are qualified to work in various capacities and levels in Senegal and the rest of Africa. The Institute recognizes the importance of the role of gender in all its activities and the importance of integrating its efforts to the benefit of public and private sector stakeholders and improving their livelihoods.

Currently, ISAE carries out applied research but without a formal learning course on the tools and methods of applied research. At ISAE, applied research covers all the links of the value chain: production, processing, distribution and marketing.

Field training

- DUT - Diplôme Universitaire Technique (Technical University Diploma) / BTS - Brevet de Technicien Supérieur (Higher Technician Certificate)
- License
- Master
- Engineer
- Doctoral

The subjects that ISAE offers are:

- ✓ plant and animal agro-sciences
- ✓ agro-food technologies and quality sciences
- ✓ nutrition and food
- ✓ aquaculture
- ✓ horticulture



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- ✓ farm business management
- ✓ agricultural and rural consulting
- ✓ agricultural machinery
- ✓ water and soil science
- ✓ climate
- ✓ agro-geomatics and sustainable agriculture
- ✓ biometrics and ICTs applied to agriculture
- ✓ agricultural policies and rural development
- ✓ training of trainers and agricultural high school teachers

Partnerships At the national level, ISAE has partnerships with:

- ✓ Within UCAD departments
- ✓ Between UCAD and institutions of higher education and research, such as other universities (Thies, Ziguinchor, Saint Louis) and the National High School of Agriculture
- ✓ Between UCAD and
 - The ministry of agriculture, departments of employment, livestock, environment.
 - The national academy of sciences and research
 - Institutions agribusiness enterprises
 - Agricultural institutions: Institut sénégalais de recherche agricole (ISRA), Institut de Technologie Alimentaire (ITA), Société de Développement et des Fibres TEXTILES (SODEFITEX), Institut National de Pédologie (INP), Société d'Aménagement des Eaux du delta du fleuve et de la vallée du Sénégal (SAED), Centre de Suivi Ecologique (CSE), Centre Régional de Recherche en Ecotoxicologie et de Sécurité Environnementale (CERES-LOCUSTOX), Centre de Formation Professionnelle Horticole (CFPH), Société de Conserves Alimentaires au Sénégal (SOCAS), Compagnie Sucrière Sénégalaise (CSS), Semences tropicales (TROPICASEM), Agence Nationale du Conseil Agricole Rural (ANCAR), Conseil National de Concertation et de coopération des ruraux (CNCR), Agence Nationale pour l'emploi des jeunes (ANPEJ), Association Sénégalaise pour la Promotion du Développement par la Base (ASPRODEP), Fédération des organisations non gouvernementales du Sénégal (FONGS), Agence Nationale d'Insertion et de développement agricole (ANIDA), Plateforme des organisations professionnelles de l'agroalimentaire du Sénégal (POPAS), fond national pour la recherche agricole et agro-alimentaire (FNRAA), GREEN AFRICA

At the international level, ISAE has partnerships with:

- ✓ USAID, including the Education and Research in Agriculture (ERA) project implemented by Virginia Tech University. Note: The USAID-funded Agriculture Education and Research (ERA) project, implemented by Virginia Tech, contributed to the creation of ISAE. ERA supported ISEA through training and logistic support.
- ✓ French cooperation (AFD)
- ✓ AFRICA LEAD
- ✓ World Bank
- ✓ Israel embassy
- ✓ FAO
- ✓ Institut de Recherche et de développement français (IRD)
- ✓ Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)



V. Expected Beneficiaries:

Expected training participants/direct recipients of volunteer assistance	# or level	Comments
Estimated number of assignment participants:	15	ISAE professors
Estimated % of women:	20%	
Average education level:	University level	
Average skill level related to the assignment:	Fair	
English-language capability/literacy level (speaking and writing):	Conversational	However, training is preferred in French (direct or via translation)
List experience or prior training on similar topic (what and when):	no	

Assignment Information

VI. Duration and Dates of Assignment (including travel): April 2019

Anticipated In-country schedule is included below:

Activity	Location	Estimated days
Travel to destination		2
Meet with F2F staff for introductory briefing and security overview and ISAE authorities	Dakar	1
Exchanges to determine ISAE needs and visits of stakeholders	Dakar	5
Adapt the training guide based on field visits/meetings	Dakar	2
Share the training guide with trainees, conduct training workshop for ISAE staff on how to effectively train on applied research, to master the different stages of this research, the process as well as their contents, the related procedures, the methodology, the objectives etc.	Dakar	5
Debriefing with host	Dakar	1
Report writing and development of final deliverables and debriefing with F2F and/or USAID		1
Depart home		2
Total number of days		19

VII. Tasks to be Performed:

Prior to leaving the US, the volunteer is expected to:

- Collect/prepare information and documents about training on applied research, to master the different stages of this research, the process as well as their contents, the related procedures, the methodology, the objectives etc.
- Prepare training materials (draft of a training guide).



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The main tasks of the assignment are to:

- Assess the needs of various and adapted services for training and supporting on applied research.
- Build capacity of ISAE staff to provide training on applied research through various trainings.
- Develop a training guide for ISAE staff on applied training.

VIII. Potential Outcomes and Impacts:

As a result of this assignment, it is expected that the host will be able to efficiently train applied research, mastering of the different stages of this research.

F2F staff will follow up with the host 6-12 months after the assignment to assess host progress and impacts resulting from the volunteer assistance.

IX. End of Assignment Report and Other Deliverables Required:

- End of Assignment Report (format to be provided).
- Letter for the host
- Manual or a training guide for ISAE staff on how to effectively train on applied research

X. F2F Pesticide Evaluation Report and Safer Use Action Plan (PERSUAP):

Type 3 (*the assignment will probably not have any pesticide issues*)

The volunteer shall review the F2F Environmental Brochure and be aware of F2F's legal requirements regarding the provision of assistance for the procurement or use of pesticides. The volunteer shall not recommend or provide advice on specific pesticides



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Administrative Information

Date SOW sent to HQ: 2/13/2019

Assignment Site(s): Dakar

Number of Volunteer Experts Requested: 1

PERSUAP Classification: Type 3

Country F2F Project: AET

Focus Area(s): Human and Institutional Capacity Development, applied research.

Commodity Chain Activities: Information and Input Support Services (areas as extension services, input supplies, veterinary services)

Type of Volunteer Assistance: Organizational Development

Host Plans for Dissemination or Replication of F2F Training:

In accordance with ISAE's training program, the staff trained by the volunteer will conduct replication training for other staff and stakeholders, perhaps even develop a course in applied research in the future. This training will also enable ISAE to conduct successful applied research training in the future.

Resources to be contributed by the Host: The host will provide lodging for participants coming from out of Dakar, transportation, and meals for the trainees.